No.



9900028

THE UNIVERD STAYLES OF AVIERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Asgrow Seed Company TTC

THE CLEAS, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC PLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR UNG IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ROSE, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

SOYBEAN

'AG3302'

In Jestimonn Therest, I have hereunto set my hand and caused the seal of the Hant Interty protection Office to be affixed at the City of Washington, D.C. this fifth day of Tebruary, in the year of our Lord two thousand one.

alank fort

Seting Commissioner Plant Variety Protection Office Surice lime INVL to S fgriculture

REPRODUCE LOCALLY. Include form number and date on all U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE		The following statements are m	FORM APPROVED - OMB NO. 0581-0 ade in accordance with the Privacy Ac		
SCIENCE AND TECHNOLOGY DIVISION - PLANT VARIETY PROTECT	1374 13 U.S.C. 352a) and the P.	aperwork Reduction Act (PRA) of 1995.			
APPLICATION FOR PLANT VARIETY PROTECTION (Instructions and information collection burden statement)	TOURNESS IS TO BE ISSUED 17 11 S	Application is required in order to determine if a plant variety protectificate is to be issued (7 U.S.C. 2421). Information is held confidential certificate is issued (7 U.S.C. 2426).			
1. NAME OF APPLICANT(S) (as it is to appear on the Certificate)		2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER	3. VARIETY NAME		
Asgrow Seed Company LLC		AGH33701	AC2202		
		AGII33701	AG3302		
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and County	ry)	5. TELEPHONE (include area code)			
P.O. Box 7570			FOR OFFICIAL USE ONLY PVPO NUMBER		
4140 114th Street Des Moines, IA 50322		515-331-7100	9900028		
Des Moines, IA 50322	** .	6. FAX (include area code)	F DATE		
		515-331-7110	10/30/98		
7. GENUS AND SPECIES NAME	8. FAMILY NAME (Botani	ical)	G RUNG AND EXAMINATION FEE:		
Glycine max	Legumi	nosae	F = 2450		
9. CROP KIND NAME (Common name) Soybean			s DATE /2/99		
			R E		
10. IF THE APPLICANT NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION	ON (corporation, partnershi	p, association, etc.) (Common name)	CERTIFICATION FEE:		
11. IF INCORPORATED, GIVE STATE OF INCORPORATION		12. DATE OF INCORPORATION	v 320		
Corporation		March 22, 1968	D DATE 11 /03/00		
13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE	IN THIS APPLICATION A	ND RECEIVE ALL PAPERS	14. TELEPHONE (include area code)		
Donald Steffen	rent Leopo	1 d	515-331-7146		
Asgrow Seed Company LLC A	sgrow Seed	Company	515-331-7148		
	.0. Box 75		15. FAX (include area code)		
	140 114th	Street	515-331-7110		
Des Moines, IA 50322 D	es Moines,	IA 50322	·		
16. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instri	uctions on reverse)		515-331-7130		
a. 🔄 Exhibit A. Origin and Breeding History of the Variety					
b. X Exhibit B. Statement of Distinctness	e e e		The second of the second of the second		
c. X Exhibit C. Objective Description of the Variety					
d. K Exhibit D. Additional Description of the Variety (Optional)					
e. X Exhibit E. Statement of the Basis of the Applicant's Ownership	. The second of	and the second s	Approximate the control of		
f. Voucher Sample (2 500 visible unreced and a final sample			to the own production of the control		
 I Voucher Sample (2,600 viable untracted seeds or, for tuber propagated va. Filling and Examination Fee (42,450), made payable to "Tressurer of the Ur 	rieties verification that tiss	ue culture will be deposited and maintaine	d in an approved public repository)		
Tressurer of the Ur	nited States" (AGN to PVPC	2)			
7. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VAR. [YES 01 "yes," answer items 18 and 19 below!	IETY NAME ONLY, AS A C	CLASS OF CERTIFIED SEED? (See Section item 20)	83(a) of the Plant Variety Protection Act)		
DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS T GENERATIONS?	O NUMBER OF 18. II	"YES" TO ITEM 18, WHICH CLASSES O	F PRODUCTION BEYOND BREEDER SEED?		
☐ YES ☐ NO		☐ FOUNDATION ☐ REGISTERED	CEPTEEN		
. HAS THE VARIETY OR A HYBRID PRODUCED FROM THE VARIETY BEEN RELEASE	ED, USED, OFFERED FOR S	SALE, OR MARKETED IN THE U.S. OR OT	HER COUNTRIES?		
■ YES #f *yes, * give names of countries and detes) □ NO USA November 1998					
	View Comments	the state of the s			
 The applicant(s) declare that a viable sample of basic seed of the variety will be furniapplicable, or for a tuber propagated variety a tissue culture will be deposited in a put 	shed with application and	will be replenished upon request in accord-	ance with such regulations as may be		
		med for the distation of the certificate.	and the second of the second o		
The undersigned applicant(s) is(are) the owner(s) of this sexually reproduced or tuber Section 42, and is entitled to protection under the provisions of Section 42 of the Plan	propagated plant variety,	and believe(s) that the variety is new, dist	nct, uniform, and stable as required in		
Applicant(s) is(are) informed that false representation herein can jeopardize protection NATURE OF APPLICANT (Owner(s))					
	SIGNATURE C	OF APPLICANT (Owner(s))			
		+1 11			
Shape			the second secon		
_ Suf	NAME OF	and algorithm			
RE (Please print or type)	NAME (Please				
Donald Steffen	Tre	nt Leopold			
Donald Steffen	Tre	nt Leopold	DATE		

ASGROW SEED COMPANY PVP APPLICATION AG3302

EXHIBIT A ORIGIN AND BREEDING HISTORY OF AG3302

- 1994 Cross YP943470HC6-29664 was made near Isabela, Puerto Rico. Parentage: A3244*A3304/2/*A3237/4/*40-3-2
- 1994 5 F1 & F2 generations were grown near Isabela, Puerto Rico and advanced using modified pedigree selection.
- 1995 F3 Bulk Populations were grown in Oxford, Indiana and single plants pulled.
- 1995-6 F3 derived F4 plants were grown in Rancagua, Chile in progeny rows, and row YP943470HC6-29664 was selected based on agronomic characteristics.
- 1996 F3:5 YP943470HC6-29664 was entered in a yield test at 4 locations in the upper Midwest, where it placed 2nd of 41 entries.
- 1996-97 F3:6 breeder seed was sent to winter nursery for double increase.

AG3302 is uniform and stable within commercially acceptable limits based on trial observations since 1996. As with any other soybean variety, variants can occur for almost any characteristic during the course of repeated sexual reproduction.

ASGROW SEED COMPANY PVP APPLICATION AG3302

EXHIBIT B Novelty Statement Concerning AG3302 Soybean

To our knowledge, the soybean varieties that closely resemble AG3302 $\,$ are A3244, A3404, A3431:

1.	Pod wall color	AG3302 A3244 A3404	- Brown - Brown - Tan
		A3431	- Brown
2.	RR TM gene	AG3302	- Present
	(Tolerance to glyphosate herbicide)	A3244	- Absent
	7	A3404	- Absent
		A3431	- Absent
3.	Pubescence color	AG3302	- Gray
		A3244	- Gray
		A3404	- Tawny
		A3431	- Gray
4.	PRR gene	AG3302	- Rps1c
	(Tolerance to Phytophthora Root Rot)	A3244	- Rps1c
	• •	A3404	- rps (susceptible)
		A3431	- Rps1c

EXHIBIT C (Soybean)

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
LIVESTOCK, MEAT, GRAIN & SEED DIVISION
PLANT VARIETY PROTECTION OFFICE
BELTSVILLE, MARYLAND 20705

OBJECTIVE DESCRIPTION OF VARIETY

SOYE	BEAN (Glycine max L.)	
NAME OF APPLICANT(S)	TEMPORARY DESIGNATION	VARIETY NAME
Asgrow Seed Company	AGH33701	AG3302
ADDRESS (Street and No., or R.F.D. No., City, State, and Zip	Code)	FOR OFFICIAL USE ONLY
		PVPO NUMBER 9000028
in your answer is fewer than the number of boxes provid	ed, place a zero in the first box \cdot	when number is 9 or less (e.g., 0 9)
1. SEED SHAPE:	\mathbb{A}	
1 = Spherical (L/W, L/T, and T/W ratios = < 1.2) 3 = Elongate (L/T ratio > 1.2; T/W = < 1.2)	1 1 2 = Spherical Flattened	
7.2. SEED COAT COLOR: (Mature Seed)		
1 = Yellow 2 = Green 3 = Brown	4 = Black 5 = Other	(Specify)
3. SEED COAT LUSTER: (Mature Hand Shelled Seed)		
	bsoy'; 'Gasoy 17')	
4. SEED SIZE: (Mature Seed)		
1 5 Grams per 100 seeds	TEMPORARY DESIGNATION ACBIETY NAME AGB33701 ACB3302 AGB33701 ACB3302 FOR OFFICIAL USE ONLY FVPO NUMBER BOCCOCS Set the appropriate response which characterizes the variety in the features described below. When the number of significant digits are namer is fewer than the number of boxes provided, place a zero in the first box when number is 9 or less (e.g., 0 9). deharacters #x considered fundamental to an adequate soybean variety description. Other characters should be described information is available. ED SHAPE:	
5. HILUM COLOR: (Mature Seed)		
1 4 5 "	4 = Gray 5 = Imperfect Bis	nck 6 = Black 7 = Other (Specify)
6. COTYLEDON COLOR: (Mature Seed)		
1 = Yellow 2 = Green		
7. SEED PROTEIN PEROXIDASE ACTIVITY:		
	en e	
8. SEED PROTEIN ELECTROPHORETIC RAND		
2 = Type B (SP1 ^b)		
9. HYPOCOTYL COLOR:	## AGH 33701 ##	
3 = Light Purple below cotyledons ('Beeson'; 'Pickett 71	')	Woodworth'; 'Tracy')
0. LEAFLET SHAPE:		
3 1 = Lanceolate 2 = Oval 3 = Ovat	e 4 = Other (Specify)	

. 1	1. LEAF	LET SIZE:	9000028
•	2	1 = Small ('Amsoy 71'; 'A5312') 2 = Medium ('Corsoy 79'; 'Gasoy 17') 3 = Large ('Crawford'; 'Tracy')	
	2 1 FAF	COLOR:	
-	2	1 = Light Green ('Weber'; 'York') 2 = Medium Green ('Corsoy 79'; 'Braxton') 3 = Dark Green ('Gnome'; 'Tracy')	
/ 1	3. FLOW	/ER COLOR:	
	2	1 = White 2 = Purple 3 = White with purple throat	
★ 1	4. POD 0	COLOR:	
	2	1 = Tan 2 = Brown 3 = Black	
k 1	5. PLAN	T PUBESCENCE COLOR:	
	1	1 = Gray 2 = Brown (Tawny)	
1	6. PLAN	T TYPES:	
	2	1 = Slender ('Essex'; 'Amsoy 71') 2 = Intermediate ('Amcor'; 'Braxton') 3 = Bushy ('Gnome'; 'Govan')	
<u> </u>	7. PLAN	T HABIT:	
	3	1 = Determinate ('Gnome'; 'Braxton') 2 = Semi-Determinate ('Will') 3 = Indeterminate ('Nebsoy'; 'Improved Pelican')	
18	3. MATU	RITY GROUP:	
	06	1 = 000	v
 T 19	DISEA	SE REACTION: (Enter 0 = Not Tested; 1 = Susceptible; 2 = Resistant)	····
•		"ERIAL DISEASES:	
*			
•		Bacterial Pustule (Xanthomonas phaseoli var. sojensis)	•
*		Bacterial Blight (Pseudomonas glycinea)	•
*	0	Wildfire (Pseudomonas tabaci)	
	FUNGA	AL DISEASES:	
*	0	Brown Spot (Septoria glycines)	
		Frogeye Leaf Spot (Cercospora sojina)	
*	0	Race 1 0 Race 2 0 Race 3 0 Race 4 0 Race 5 Other (Specify)	·)
	0	Target Spot (Corynespora cassiicola)	
	0	Downy Mildew (Peronospora trifoliorum var. manshurica)	
	0	Powdery Mildew (Microsphaera diffusa)	
*	0	Brown Stem Rot (Cephalosporium gregatum)	
	0	Stern Canker (Diaporthe phaseolorum var. caulivora)	

. 19	. DISEA	SE REACTION: (Enter 0 = Not Tested; 1 = Susceptible; 2 = Resistant) (Continued)		9000028
	FUN	IGAL DISEASES: (Continued)		
*		Pod and Stem Blight (Diaporthe phaseolorum var; sojae)		•
	0	Purple Seed Stain (Cercospora kikuchii)		•
	0	Rhizoctonia Root Rot (Rhizoctonia solani)		
		Phytophthora Rot (Phytophthora megasperma var. sojae)		
*	2	Race 1 2 Race 2 2 Race 3 1 Race 4 1 Race 5	2 Race 6	2 Race 7
	2	Race 8 2 Race 9 2 Other (Specify) Races 10,11,13,15	,17,21,22,	24
	VIRA	AL DISEASES:	· ·	e e e e e e e e e e e e e e e e e e e
		Bud Blight (Tobacco Ringspot Virus)		· · · · · · · · · · · · · · · · · · ·
		Yellow Mosaic (Bean Yellow Mosaic Virus)		
*		Cowpea Mosaic (Cowpea Chlorotic Virus)		
		Pod Mottle (Bean Pod Mottle Virus)		
*	0	Seed Mottle (Soybean Mosaic Virus)		
	NEM	ATODE DISEASES:		
		Soybean Cyst Nematode (Heterodera glycines)		
*	0	Race 1 0 Race 2 1 Race 3 0 Race 4 1 Other (Speci	Race 14	
	0	Lance Nematode (Hoplolaimus Colombus)		
*	0	Southern Root Knot Nematode (Meloidogyne incognita)		
*	0	Northern Root Knot Nematode (Meloidogyne Hapla)		
	0	Peanut Root Knot Nematode (Meloidogyne arenaria)		
	0	Reniform Nematode (Rotylenchulus reniformis)		
	\Box	OTHER DISEASE NOT ON FORM (Specify):		
20, 1	PHYSIOI	OGICAL RESPONSES: (Enter 0 = Not Tested; 1 = Susceptible; 2 = Resistant)		· · · · · · · · · · · · · · · · · · ·
*		fron Chlorosis on Calcareous Soil		
		Other (Specify)	·	
21. 1	NSECT	REACTION: (Enter 0 = Not Tested; 1 = Susceptible; 2 = Resistant)		
		Mexican Bean Beetle (Epilachna varivestis)		
	0 ,	Potato Leaf Hopper (Empoasca fabae)		
	\Box $^{\circ}$	Other (Specify)	· 	_
22.	NDICAT	E WHICH VARIETY MOST CLOSELY RESEMBLES THAT SUBMITTED.		···
	CHARA		NAME OF	VARIETY
PI	ant Shap			
Le	af Shape	Seed Size		· · · · · · · · · · · · · · · · · · ·
Le	af Color	Seed Shape		
Le	af Size	Seedling Pigmentation		
OP14:	Mon :-			
~ . TIVI	-wi95-47	0-57 (6-83)		

	6-	· · · · · · · · · · · · · · · · · · ·	
77	CIVEDATA	FOR CURALITIES AND SHAPE A	
40.	GIVEDAIA	FUR SUBMITTED AND SIMILAR STANDARD MADIETY, butter a comment	
		FOR SUBMITTED AND SIMILAR STANDARD VARIETY: Paired Comparison Data	

	10	,179	12	.•,	F .	0
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	- Comparison Data								
VARIETY	NO. OF DAYS	PLANT LODGING SCORE	CM PLANT HEIGHT	LEAFLET SIZE		SEED CONTENT		SEED SIZE G/100	NO. SEEDS/
	MATURITY			CM Width	CM Length	% Protein	% Oil	SEEDS	POD
Submitted AG3302	136	1.9	86			41.4	20.9	15	
A3237 Name of Similar Variety	135	1.4	87		·	41.0	20.9	16	

PUBLICATIONS USEFUL AS REFERENCE AIDS FOR COMPLETING THIS FORM:

- 1. Caldwell, B.E., ed. 1973. Soybeans: Improvement, Production, and Uses. Amer. Soc. Agron. Monograph No. 16.
- 2. Buttery, B.R. and R.I. Buzzell. 1968. Peroxidase activity in seeds of soybean varieties. Crop Sci., 8: 722-725.
- 3. Hymowitz, T. 1973. Electrophoretic analysis of SBTI-A2 in the USDA soybean germplasm collection. Crop Sci., 13: 420-421.
- 4. Payne, R.C. and L.F. Morris. 1976. Differentiation of soybean cultivars by seedling pigmentation patterns. J. Seed Technol. 1: 1-19.

ASGROW SEED COMPANY PVP APPLICATION AG3302

EXHIBIT D

Additional Description of AG3302 Soybean

AG3302 is a mid maturity group III variety with resistance to Roundup tm herbicide. It has very high yield potential. It has superior yields to lines of similar maturity and has excellent agronomic characteristics, including superior lodging resistance. In tests, it has beat Asgrow A3244 by 109 % overall, winning at 4 of 4 locations. It has a major gene for Phytophthora resistance, Rps1c, conferring resistance to most races of Phytophthora Root Rot. AG3302 would be grown in the mid Group III growing areas of the corn belt, including Iowa, Illinois, Missouri, Indiana, and Nebraska. It is only of average appearance.

ASGROW SEED COMPANY PVP APPLICATION AG3302

EXHIBIT E Statement of Basis of Applicant Ownership

AG3302 was originated and developed by Dr. Beth A. Holmes, an Asgrow soybean breeder. By agreement with Asgrow Seed Company, all rights to any invention, discovery or development made by employees are assigned to the company. No rights of such invention, discovery or development are returned to the employee.